Index to Volume 58

Author Index

Aeby, Greta—*see* Maragos et al.
Andrews, Kim
  Barriers to Gene Flow in the Hawaiian Spinner Dolphin (Stenella longirostris) (abstract), 119
Attygalle, Athula—*see* Buden et al.

Barris, Brian
  Type Ia Supernovae and the Accelerating Universe (abstract), 120
Bodner, Gustav
  Tracking High-Altitude Birds and Their Diseases on Mauna Kea (abstract), 120
Borsa, Philipe, and Galice Hoarau
  A Pygmy Blue Whale (Cetacea: Balaenopteridae) in the Inshore Waters of New Caledonia, 579–584
Bowen, Terra
  Cassiopea ("Upside-down Jellyfish") sp. As an Indicator Species of Water Conditions in Areas on the Windward Side of O'ahu, Hawai'i (abstract), 121
Brooks, Fred E.
  Plant-Parasitic Algae (Chlorophyta: Trentepohliales) in American Samoa, 419–428
Brown, Eric
  Size-Frequency Distributions of Coral Populations along West Maui: Rapid Predictors of Reef "Condition" (abstract), 121
Brown, Eric, Evelyn Cox, Paul Jokiel, Ku'ulei Rodgers, William Smith, Brian Tissot, Steve L. Coles, and Jonathan Hultquist
  Development of Benthic Sampling Methods for the Coral Reef Assessment and Monitoring Program (CRAMP) in Hawai'i, 145–158
Brown, Eric K.—*see* Jokiel et al.
Bryan, Patrick G.—*see* Trianni and Bryan
Buden, Donald W., Athula Attygalle, and Xiaogang Wu
  Distribution of the Chuuk Islands Giant Millipede, *Acladocricus setigerus* (Spirobolida: Rhinocricidae), and Identification of Its Defensive Compounds, 625–636
Bybee, David R.
  Reproduction of the Sabellid Polychaete *Sabellastarte spectabilis* in Kāne'ohe Bay, O'ahu, Hawai'i (abstract), 122

Cesar, Herman S. J., and Pieter J. H. van Beukering
  Economic Valuation of the Coral Reefs of Hawai'i, 231–242
Cesar, Herman S. J.—*see* van Beukering and Cesar
Clark, Timothy B.
  Habitat Use and Feeding Ecology of the Manta Ray (*Manta birostris*) in Hawai'i (abstract), 122
Clarke, Dave—*see* Coote et al.
Coles, Steve L.—*see* Brown et al.
Conklin, Eric J.—*see* Smith et al.
Conklin, Eric J., and John Stimson
  An Attempt to Increase Numbers of Herbivorous Fishes as a Means of Controlling Populations of Fleshy Macroalgae on Coral Reefs in Kāne'ohe Bay, Hawai'i, 189–200
Cook, Robert P.
  Macrofauna of Laufuti Stream, Taú, American Samoa, and the Role of Physiography in Its Zonation, 7–21
Coote, Trevor, Dave Clarke, Carole S. Hickman, James Murray, and Paul Pearce-Kelly
  Experimental Release of Endemic *Partula* Species, Extinct in the Wild, into a Protected Area of Natural Habitat on Moorea, 429–434
Cowie, Robert H., and J. A. Grant-Mackie
  Land Snail Fauna of Mé Auré Cave (WMD007), Moindou, New Caledonia: Human Introductions and Faunal Change, 447–460
Cox, Evelyn—*see* Brown et al.

Daly, Marymegan
  Anatomy and Taxonomy of Three Species of Sea Anemones (Cnidaria: Anthozoa: Actiniidae) from the Gulf of California, Including Isoaulactinia hespervolita Daly, n. sp., 377–390
Davidson, Kristine—*see* Hamnett et al.
Devick, William—*see* Hamnett et al.
Dierking, Jan
  Socioeconomics of a Hidden Fishery: The Aquarium Fish Industry in West Hawai'i (abstract), 123
Dollar, Steven J., and Richard W. Grigg
  Anthropogenic and Natural Stresses on Selected Coral Reefs in Hawai'i: A Multidecade Synthesis of Impact and Recovery, 281–304
Dutton, Peter H.—*see* Pitman and Dutton

Eldredge, Lucius—*see* Hamnett et al.
Elliott-Fisk, Deborah—*see* Price and Elliott-Fisk
Engels, Mary—*see* Rooney et al.

Faucci, Anuschka
  Reconciling Host Association with Phylogeography: Patterns of Genetic Variation in the Tropical Nudibranch Genus Phestilla (abstract), 123
Field, Michael—*see* Rooney et al.
Fletcher, Charles—*see* Rooney et al.
Foster, Kevin—*see* Hamnett et al.
Freifeld, Holly B., Chris Solek, and Ailao Tualaulelei
  Temporal Variation in Forest Bird Survey Data from Tutuila Island, American Samoa, 99–117
Friedlander, Alan—*see* Jokiel et al.

Golden, Debra L.
  Cybersex, the Internet, and Sexuality (abstract), 124

Gove, Jamison
Upwelling of the Equatorial Undercurrent near Three Pacific Equatorial Islands: Implications for Local Ecosystem Processes (abstract), 124
Graham, Brittany
Pacific Salmon: A Conduit of Marine Nutrients and Organic Matter to Stream Ecosystems (abstract), 125
Grant-Mackie, J. A.—*see* Cowie and Grant-Mackie
Gray, Blair E., and Abigail M. Smith
Mineralogical Variation in Shells of the Blackfoot Abalone, *Haliotis iris* (Mollusca: Gastropoda: Haliotidae), in Southern New Zealand, 47–64
Gregg, Chris E.
Perception of Volcanic Risk in Kona Communities from Mauna Loa and Hualālai Volcanoes, Hawai'i (abstract), 125
Grigg, Richard W.
Harvesting Impacts and Invasion by an Alien Species Decrease Estimates of Black Coral Yield off Maui, Hawai'i, 1–6
Grigg, Richard W.—*see* Dollar and Grigg
Grossman, Eric—*see* Rooney et al.
Grove, Jack S.—*see* Robertson et al.
Gulko, Dave—*see* Maragos et al.

Hallacher, Leon E.—*see* Tissot et al.
Hamnett, Michael, Kristine Davidson, William Devick, Lucius Eldredge, Kevin Foster, Jo-Ann Leong, Robert Nishimoto, Francis Oishi, and Celia Smith
Introduction to Special Hawai'i Coral Reef Initiative Research Program Volume, 143–144
Hebshi, Aaron
Nonrandom Associations of Seabirds with Subsurface Predators in Hawaiian Waters (abstract), 126
Hickman, Carole S.—*see* Coote et al.
Hoarau, Galice—*see* Borsa and Hoarau
Hu, Qirui
The *Fibulin-5* Gene in Cutis Laxa (abstract), 127
Hultquist, Jonathan—*see* Brown et al.
Hunter, Cynthia L.—*see* Smith et al.

Johnson, Nathan C.—*see* Wiles and Johnson
Jokiel, Paul—*see* Brown et al.
Jokiel, Paul L., Eric K. Brown, Alan Friedlander, S. Ku'ulei Rodgers, and William R. Smith
Hawai'i Coral Reef Assessment and Monitoring Program: Spatial Patterns and Temporal Dynamics in Reef Coral Communities, 159–174

Kenyon, Jean—*see* Maragos et al.
Kuntz, Wendy A.
Importance of Extreme Weather Events to the Breeding Biology of the 'I'iwi (*Vestiaria coccinea*) (abstract), 127

Langston, Ross
Gonad Morphology and Sex Allocation in Sandburrowers (Family Creediidae) (abstract), 128
Laws, Edward A., and Lauren Roth
Impact of Stream Hardening on Water Quality and Metabolic Characteristics of Waimānalo and Kāne'ohe Streams, O'ahu, Hawaiian Islands, 261–280
Leong, Jo-Ann—*see* Hamnett et al.
Lester, Philip J., and Alapati Tavite
Long-Legged Ants, *Anoplolepis gracilipes* (Hymenoptera: Formicidae), Have Invaded Tokelau, Changing Composition and Dynamics of Ant and Invertebrate Communities, 391–401
Li, Chun-I
Distinct Roles of Medial Amygdala and Central Amygdala in Unconditioned and Conditioned Fear (abstract), 128
Lobel, Lisa Kerr—*see* Lobel and Lobel
Lobel, Phillip S., and Lisa Kerr Lobel
Annotated Checklist of the Fishes of Wake Atoll, 65–90

Maragos, James E., Donald C. Potts, Greta Aeby, Dave Gulko, Jean Kenyon, Daria Siciliano, and Dan VanRavenswaay
2000–2002 Rapid Ecological Assessment of Corals (Anthozoa) on Shallow Reefs of the Northwestern Hawaiian Islands. Part 1: Species and Distribution, 211–230
Maruska, Karen P.
Neural Substrates for Hormone Modulation of Sensory Systems in Reef Fishes (abstract), 129
Matus, David Q.
Evolution of Posterior Hox Genes: Markers for Metazoan Evolution (abstract), 129
McClintock, Murray
Volcaniclastic Initiation of Karoo Flood Basalt Volcanism (abstract), 130
McCosker, John E.—*see* Robertson et al.
Meyer, Jean-Yves
Threat of Invasive Alien Plants to Native Flora and Forest Vegetation of Eastern Polynesia, 357–375
Most, Rebecca—*see* Smith et al.
Mundy, Bruce C., and Frank A. Parrish
New Records of the Fish Genus *Grammatonotus* (Teleostei: Perciformes: Percoidei: Callanthiidae) from the Central Pacific, Including a Spectacular Species in the Northwestern Hawaiian Islands, 403–417
Muranyi, Marianna
Diabetes Activates Cell Death Pathway after Ischemic Stroke (abstract), 130
Murray, James—*see* Coote et al.

Nishimoto, Robert—*see* Hamnett et al.

Oishi, Francis—*see* Hamnett et al.

Parrish, Frank A.—*see* Mundy and Parrish
Pearce-Kelly, Paul—*see* Coote et al.
Peguero-Icaza, Martha and Laura Sánchez-Velasco
Spatial Distribution of Fish Larvae in a Bay of the Gulf of California (June and November 1997), 567–578

Pitman, Robert L., and Peter H. Dutton
Killer Whale Predation on a Leatherback Turtle in the Northeast Pacific, 497–498
Potts, Donald C.—*see* Maragos et al.
Pregill, Gregory K.—*see* Steadman and Pregill
Preskitt, Linda B., Peter S. Vroom, and Celia M. Smith
A Rapid Ecological Assessment (REA) Quantitative Survey Method for Benthic Algae Using Photoquadrats with Scuba, 201–209
Price, Jonathan Paul, and Deborah Elliott-Fisk
Topographic History of the Maui Nui Complex, Hawai'i, and Its Implications for Biogeography, 27–45

Riley, Larry G.
Estrogen Differentially Regulates Vitellogenin and Insulinlike Growth Factor-I Production from Primary Hepatocytes in the Tilapia, *Oreochromis mossambicus* (abstract), 131
Robertson, D. Ross, Jack S. Grove, and John E. McCosker
Tropical Transpacific Shore Fishes, 507–565
Rodgers, Ku'ulei—*see* Brown et al.
Rodgers, S. Ku'ulei—*see* Jokiel et al.
Rooney, John, Charles Fletcher, Eric Grossman, Mary Engels, and Michael Field
El Niño Influence on Holocene Reef Accretion in Hawai'i, 305–324
Roth, Lauren—*see* Laws and Roth
Roux, Michel
New Hyocrinid Crinoids (Echinodermata) from Submersible Investigations in the Pacific Ocean, 597–613

Sánchez-Velasco, Laura—*see* Peguero-Icaza and Sánchez-Velasco
Sauvage, Thomas—*see* Smith et al.
Siciliano, Daria—*see* Maragos et al.
Siqueiros Beltrones, David A., and Guillermina Valenzuela Romero
Benthic Diatom Assemblages in an Abalone (*Haliotis* spp.) Habitat in the Baja California Peninsula, 435–446
Smith, Abigail M.—*see* Gray and Smith
Smith, Celia—*see* Hamnett et al.
Smith, Celia M.—*see* Preskitt et al.
Smith, Celia M.—*see* Smith et al.
Smith, Jennifer E., Cynthia L. Hunter, Eric J. Conklin, Rebecca Most, Thomas Sauvage, Cheryl Squair, and Celia M. Smith
Ecology of the Invasive Red Alga *Gracilaria salicornia* (Rhodophyta) on O'ahu, Hawai'i, 325–343
Smith, Lance
Abiotic versus Biotic Factors Affecting Distribution of Two Coral Species in Ofu Lagoon, American Samoa National Park (abstract), 131
Smith, William—*see* Brown et al.
Smith, William R.—*see* Jokiel et al.
Solek, Chris—*see* Freifeld et al.
Squair, Cheryl—*see* Smith et al.
Steadman, David W., and Gregory K. Pregill
A Prehistoric, Noncultural Vertebrate Assemblage from Tutuila, American Samoa, 615–624
Steutel, Donovan
Quantitative Compositional Analysis of Surface Pyroxenes on Mars (abstract), 132
Stimson, John—*see* Conklin and Stimson
Strang, David A.
Does Size Matter? Mate Choice in the Monogamous Butterflyfish *Chaetodon multicinctus* (abstract), 132
Strommer, Laurie
Bird and Plant Communities in *Acacia koa* reforestation Areas (abstract), 133

Tavite, Alapati—*see* Lester and Tavite
Tissot, Brian—*see* Brown et al.
Tissot, Brian N., William J. Walsh, and Leon E. Hallacher
Evaluating Effectiveness of a Marine Protected Area Network in West Hawai'i to Increase Productivity of an Aquarium Fishery, 175–188
Toyoshima, Junko
Population Dynamics of Algal Symbionts in the Coral *Montipora capitata* (abstract), 133
Trianni, Michael S., and Patrick G. Bryan
Survey and Estimates of Commercially Viable Populations of the Sea Cucumber *Actinopyga mauritiana* (Echinodermata: Holothuroidea), on Tinian Island, Commonwealth of the Northern Mariana Islands, 91–98
Tsuda, Roy T.
Hormophysa cuneiformis (Phaeophyta: Fucales) in Micronesia, 23–26
Tualaulelei, Ailao—*see* Freifeld et al.
Tuthill, Matthew C.
Regulation of the N-myc Oncogene in Neuroblastoma Is Dependent on Sp1 and Sp3 (abstract), 134

Valenzuela Romero, Guillermina—*see* Siqueiros Beltrones and Valenzuela Romero
van Beukering, Pieter J. H., and Herman S. J. Cesar
Ecological Economic Modeling of Coral Reefs: Evaluating Tourist Overuse at Hanauma Bay and Algae Blooms at the Kihei Coast, Hawai'i, 243–260
van Beukering, Pieter J. H.—*see* Cesar and van Beukering
VanRavenswaay, Dan—*see* Maragos et al.
Venzon Jr., Nel C.
Delivery of Foreign DNA into Shrimp Embryos via Electroporation (abstract), 134
Vroom, Peter S.—*see* Preskitt et al.

Walsh, William J.—*see* Tissot et al.
Walton, Chad B.
Utilizing Computer Modeling and Bioinformatics to Develop de novo Proteins as Vaccine Candidates against *Mycobacterium tuberculosis* (abstract), 135

Warren, Steven D.
Degradation and Recovery of Vegetation on Kahoʻolawe Island, Hawaiʻi: A Photographic Journey, 461–495
Whitney, Nick
Group Courtship, Mating Behavior, and Siphon Sac Function in the Whitetip Reef Shark, *Triaenodon obesus* (abstract), 135
Whittle, Amber
Investigation of Sound as a Recruitment Cue in Larval Fishes and *Schindleria* sp. (abstract), 136
Wiles, Gary J., and Nathan C. Johnson
Population Size and Natural History of Mariana Fruit Bats (Chiroptera: Pteropodidae) on Sarigan, Mariana Islands, 585–596
Wu, Xiaogang—*see* Buden et al.

Zabin, Chela
Biotic and Abiotic Factors in the Invasion Success of a Caribbean Barnacle in Hawaiʻi (abstract), 136

Subject Index

abalone, blackfoot—see *Haliotis iris*
Acacia koa, bird and plant communities in reforestation areas, 133
Acladocricus setigerus, distribution, and identification of defensive compounds, 625–636
Actiniidae, 377–390
Actinopyga mauritiana, survey and population estimates on Tinian, 91–98
algae, benthic, Rapid Ecological Assessment of, using photoquadrats with scuba, 201–209
  plant-parasitic, in American Samoa, 419–428
alien plants, threat to native flora of eastern Polynesia, 357–375
amygdala, medial and central, distinct roles of in unconditioned and conditioned fear, 128
Anoplolepis gracilipes,invading Tokelau, 391–401
Anthozoa, 211–230, 377–390
ants, long-legged—see *Anoplolepis gracilipes*

Balaenopteridae, 579–584
barnacle, biotic and abiotic factors in invasion success, 136–137
bats, Mariana fruit, population size and natural history, 585–596
benthic sampling methods for CRAMP, 145–158
birds, forest, temporal variation in survey data from Tutuila, 99–117
  high-altitude, and diseases, tracking on Mauna Kea, 120
butterflyfish—see *Chaetodon*

Callanthiidae, 403–417
Cassiopea sp. as indicator species of water conditions, 121
Cetacea, 579–584
Chaetodon, mate choice in monogamous, 132–133
Chiroptera, 585–596
Chlorophyta, 419–428
Cnidaria, 377–390
coral—see *Montipora capitata*
coral, abiotic versus biotic factors affecting distribution, 131–132
  black, harvesting impacts and invasion by an alien species, 1–6
  rapid predictors of reef "condition," 121
coral reef communities, spatial patterns and temporal dynamics, 159–174
coral reefs, anthropogenic and natural stresses in Hawai'i, 281–304
  ecological economic modeling of, 243–260
  economic valuation of, in Hawai'i, 231–242
corals, Rapid Ecological Assessment of, in Northwestern Hawaiian Islands, 211–230
Creediidae, gonal morphology and sex allocation in, 128
crinoids, hyocrinid, in the Pacific Ocean, 597–613
cutis laxa, *fibulin-5* gene in, 127
cybersex, Internet and sexuality, 124

diabetes, activates cell death pathway after ischemic stroke, 130–131
diatom assemblages in an abalone habitat in Baja California, 435–446
dolphin, Hawaiian spinner—see *Stenella longirostris*

Echinodermata, 91–98, 597–613

fishes, aquarium, industry in West Hawai'i, 123
  checklist of Wake Atoll, 65–90
  herbivorous, to control fleshy macroalgae on coral reefs, 189–200
  larval, investigation of sound as a recruitment cue in, 136
  spatial distribution, in the Gulf of California, 567–578
  reef, neural substrates for hormone modulation of sensory systems in, 129
  tropical transpacific shore, 507–565
Formicidae, 391–401
Fucales, 23–26

genes, posterior Hox, markers for metazoan evolution, 129–130
Gracilaria salicornia, ecology on O'ahu, 325–343
Grammatonotus, new records from the central Pacific, 403–417

Haliotis, diatom assemblages in habitat, 435–446
Haliotis iris, mineralogical variation in shells of, 47–64
Hawai'i Coral Reef Assessment and Monitoring Program, 145–158, 159–174
Hawai'i Coral Reef Initiative Research Program 143–144
Holothuroidea, 91–98
Hormophysa cuneiformis, in Micronesia, 23–26
Hymenoptera, 391–401

'I'iwi—see *Vestiaria coccinea*
Isoaulactinia bespervolita Daly, n. sp., 377–390

jellyfish, "upside-down" —see *Cassiopea* sp.

Kaho'olawe vegetation, degradation and recovery, 461–495
Karoo flood basalt volcanism, volcaniclastic initiation of, 130

macrofauna of Laufuti Stream, Taú, American Samoa, 7–21
Manta birostris, habitat use and feeding ecology of, 122–123
manta ray—see *Manta birostris*
Marine Protected Area Network to increase productivity of aquarium fishery, 175–188
Mars, quantitative compositional analysis of surface pyroxenes on, 132
millipede, Chuuk Islands giant—see *Acladocricus setigerus*
Montipora capitata, population, dynamics of algal symbionts in, 133–134
Myobacterium tuberculosis, developing de novo proteins as vaccine candidates against, 135

neuroblastoma, regulation of N-myc oncogene dependent on Sp1 and Sp3 in, 134
nudibranch—see *Phestilla*

Oreochromis mossambicus, estrogen studies in, 131

Partula species, endemic, experimental release in the wild, 429–434
Perciformes, 403–417
Percoidea, 403–417
Phaeophyta, 23–26
Phestilla, patterns of genetic variation in, 123–124
polychaete—see *Sabellastarte spectabilis*
Pteropodidae, 585–596

reef accretion, El Niño influence on in Hawai'i, 305–324
Rhinocricidae, 625–636
Rhodophyta, 325–343

Sabellastarte spectabilis, reproduction of, 122
salmon, Pacific, conduit of marine nutrients and organic matter to stream ecosystems, 125
sandburrowers—see Creediidae
Schinderia sp., investigation of sound as a recruitment cue in, 136
sea anemones, anatomy and taxonomy, 377–390
seabirds, nonrandom associations of with subsurface predators, 126
sea cucumber—see *Actinopyga mauritiana*
shark, whitetip reef—see *Triaenodon obesus*
shrimp, delivery of foreign DNA into embryos of via electroporation, 134–135
snails, land, of Mé Auré Cave in New Caledonia, 447–460
Spirobolida, 625–636
Stenella longirostris, barriers to gene flow in, 119–120
stream hardening, impact on O'ahu streams, 261–280
supernova, Type Ia, and the accelerating universe, 120

Teleostei, 403–417
Tester Memorial Symposium abstracts, 119–137
tilapia—see *Oreochromis mossambicus*
topographic history of the Maui Nui complex, and implication for biogeography, 27–45
Trentepohliales, 419–428
Triaenodon obesus, group courtship, mating behavior, and siphon sac function in, 135–136
turtle, leatherback, predation by killer whale, 497–498

Undercurrent, Equatorial, implications of upwelling for local ecosystem processes, 124–125

vertebrate assemblage, prehistoric, noncultural, from Tutuila, 615–624
Vestiaria coccinea, importance of extreme weather events to breeding biology, 127
volcanic risk, perception of in Kona, 125–126

whale, killer, predation on leatherback turtle, 497–498
pygmy blue, in New Caledonia, 579–584